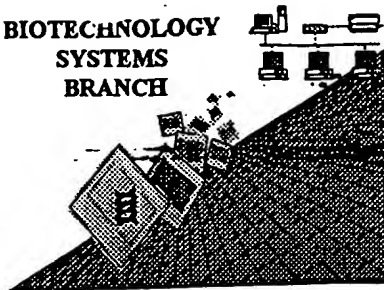


**RAW SEQUENCE LISTING**  
**ERROR REPORT**

BIOTECHNOLOGY  
SYSTEMS  
BRANCH



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/669,187

Source: OIPE

Date Processed by STIC: 10-03-00

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY  
EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT  
COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY  
or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT,  
WITH A NOTICE TO COMPLY

FOR FURTHER INFORMATION, PLEASE TELEPHONE MARK SPENCER,  
703-308-4212.

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER  
VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND  
TRADEMARK OFFICE WEBSITE. SEE BELOW:

**Checker Version 3.0**

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 - 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:

<http://www.uspto.gov/web/offices/pac/checker>

# Raw Sequence Listing Error Summary

## ERROR DETECTED SUGGESTED CORRECTION

SERIAL NUMBER:

09/669,187

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 ☐ Wrapped Nucleics The number/text at the end of each line "wrapped" down to the next line.  
This may occur if your file was retrieved in a word processor after creating it.  
Please adjust your right margin to .3, as this will prevent "wrapping".
- 2 ☐ Wrapped Aminos The amino acid number/text at the end of each line "wrapped" down to the next line.  
This may occur if your file was retrieved in a word processor after creating it.  
Please adjust your right margin to .3, as this will prevent "wrapping".
- 3 ☐ Incorrect Line Length The rules require that a line not exceed 72 characters in length. This includes spaces.
- 4 ☐ Misaligned Amino Acid Numbering The numbering under each 5th amino acid is misaligned. This may be caused by the use of tabs between the numbering. It is recommended to delete any tabs and use spacing between the numbers.
- 5 ☐ Non-ASCII This file was not saved in ASCII (DOS) text, as required by the Sequence Rules.  
Please ensure your subsequent submission is saved in ASCII text so that it can be processed.
- 6 ☐ Variable Length Sequence(s) \_\_\_\_ contain n's or Xaa's which represented more than one residue.  
As per the rules, each n or Xaa can only represent a single residue.  
Please present the maximum number of each residue having variable length and indicate in the (ix) feature section that some may be missing.
- 7 ☐ PatentIn ver. 2.0 "bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequence(s) \_\_\_\_\_. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies primarily to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 8 ☐ Skipped Sequences (OLD RULES) Sequence(s) \_\_\_\_ missing. If intentional, please use the following format for each skipped sequence:  
(2) INFORMATION FOR SEQ ID NO:X:  
(i) SEQUENCE CHARACTERISTICS:(Do not insert any headings under "SEQUENCE CHARACTERISTICS")  
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X:  
This sequence is intentionally skipped  
  
Please also adjust the "(iii) NUMBER OF SEQUENCES:" response to include the skipped sequence(s).
- 9 ☐ Skipped Sequences (NEW RULES) Sequence(s) \_\_\_\_ missing. If intentional, please use the following format for each skipped sequence.  
<210> sequence id number  
<400> sequence id number  
000
- 10 ☐ Use of n's or Xaa's (NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing.  
Use of <220> to <223> is MANDATORY if n's or Xaa's are present.  
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 11 ☐ Use of <213>Organism (NEW RULES) Sequence(s) \_\_\_\_ are missing this mandatory field or its response.
- 12 ☒ Use of <220>Feature (NEW RULES) Sequence(s) \_\_\_\_ are missing the <220>Feature and associated headings.  
Use of <220> to <223> is MANDATORY if <213>ORGANISM is "Artificial" or "Unknown"  
Please explain source of genetic material in <220> to <223> section.  
(See "Federal Register," 6/01/98, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of new Rules)
- 13 ☐ PatentIn ver. 2.0 "bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing).  
Instead, please use "File Manager" or any other means to copy file to floppy disk.

OIPE

RAW SEQUENCE LISTING  
 PATENT APPLICATION: US/09/669,187

DATE: 10/03/2000  
 TIME: 15:21:53

Input Set : A:\C10397035US.txt  
 Output Set: N:\CRF3\10032000\I669187.raw

4 <110> APPLICANT: Krieg, Arthur M.  
 5 Schetter, Christian  
 6 Vollmer, Jorg  
 9 <120> TITLE OF INVENTION: Immunostimulatory Nucleic Acids  
 11 <130> FILE REFERENCE: C1039/7035 (HCL/MAT)  
 C--> 13 <140> CURRENT APPLICATION NUMBER: US/09/669,187  
 C--> 13 <141> CURRENT FILING DATE: 2000-09-25  
 13 <150> PRIOR APPLICATION NUMBER: US 60/156,113  
 14 <151> PRIOR FILING DATE: 1999-09-25  
 16 <150> PRIOR APPLICATION NUMBER: US 60/156,135  
 17 <151> PRIOR FILING DATE: 1999-09-27  
 19 <150> PRIOR APPLICATION NUMBER: US 60/227,436  
 20 <151> PRIOR FILING DATE: 2000-08-23  
 22 <160> NUMBER OF SEQ ID NOS: 1145  
 24 <170> SOFTWARE: FastSEQ for Windows Version 3.0  
 26 <210> SEQ ID NO: 1  
 27 <211> LENGTH: 18  
 28 <212> TYPE: DNA  
 29 <213> ORGANISM: Artificial Sequence  
 31 <220> FEATURE:  
 32 <223> OTHER INFORMATION: Synthetic Sequence  
 34 <400> SEQUENCE: 1  
 35 tctcccagcg tgcgccat  
 37 <210> SEQ ID NO: 2  
 38 <211> LENGTH: 20  
 39 <212> TYPE: DNA  
 40 <213> ORGANISM: Artificial Sequence  
 W--> 42 <220> FEATURE:  
 W--> 42 <223> OTHER INFORMATION:  
 42 <400> SEQUENCE: 2  
 43 ataattccagc ttgaaccaag  
 45 <210> SEQ ID NO: 3  
 46 <211> LENGTH: 20  
 47 <212> TYPE: DNA  
 48 <213> ORGANISM: Artificial Sequence  
 W--> 50 <220> FEATURE:  
 W--> 50 <223> OTHER INFORMATION:  
 50 <400> SEQUENCE: 3  
 51 ataattcgacg ttcaagcaag  
 53 <210> SEQ ID NO: 4  
 54 <211> LENGTH: 18  
 55 <212> TYPE: DNA  
 62 <213> ORGANISM: Artificial Sequence  
 W--> 64 <220> FEATURE:  
 W--> 64 <223> OTHER INFORMATION:  
 64 <400> SEQUENCE: 4  
 65 taccggtgc gaccctct

Does Not Comply  
 Corrected Diskette Needed

see pp. 1-5

<220>, <223> features  
 mandatory with an  
 artificial sequence.  
 see #12 on  
 Error Summary Sheet

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/669,187

DATE: 10/03/2000  
TIME: 15:21:53

Input Set : A:\C10397035US.txt  
Output Set : N:\CRF3\10032000\I669187.raw

```

67 <210> SEQ ID NO: 5
68 <211> LENGTH: 9
69 <212> TYPE: DNA
70 <213> ORGANISM: Artificial Sequence
W--> 72 <220> FEATURE:
W--> 72 <223> OTHER INFORMATION:
72 <400> SEQUENCE: 5
73 ggggaggggt
75 <210> SEQ ID NO: 6
76 <211> LENGTH: 9
77 <212> TYPE: DNA
78 <213> ORGANISM: Artificial Sequence
W--> 80 <220> FEATURE:
W--> 80 <223> OTHER INFORMATION:
80 <400> SEQUENCE: 6
81 ggggagggg
83 <210> SEQ ID NO: 7
84 <211> LENGTH: 9
85 <212> TYPE: DNA
86 <213> ORGANISM: Artificial Sequence
W--> 88 <220> FEATURE:
W--> 88 <223> OTHER INFORMATION:
88 <400> SEQUENCE: 7
89 ggtgaggtg
91 <210> SEQ ID NO: 8
92 <211> LENGTH: 20
93 <212> TYPE: DNA
94 <213> ORGANISM: Artificial Sequence
96 <220> FEATURE:
97 <221> NAME/KEY: modified_base
98 <222> LOCATION: (8)...(8)
99 <223> OTHER INFORMATION: m5c
101 <400> SEQUENCE: 8
W--> 102 tccatgtngt tctgatgct
104 <210> SEQ ID NO: 9
105 <211> LENGTH: 15
106 <212> TYPE: DNA
107 <213> ORGANISM: Artificial Sequence
109 <220> FEATURE:
110 <221> NAME/KEY: modified_base
111 <222> LOCATION: (11)...(11)
112 <223> OTHER INFORMATION: m5c
114 <400> SEQUENCE: 9
W--> 115 gctaccttag ngtga
117 <210> SEQ ID NO: 10
118 <211> LENGTH: 20
119 <212> TYPE: DNA
120 <213> ORGANISM: Artificial Sequence
122 <220> FEATURE:

```

refer  
to p.1

no <220>, <223> feature  
to explain artificial sequence.

RAW SEQUENCE LISTING  
 PATENT APPLICATION: US/09/669,187

DATE: 10/03/2000  
 TIME: 15:21:53

Input Set : A:\C10397035US.txt  
 Output Set: N:\CRF3\10032000\I669187.raw

```

123 <221> NAME/KEY: modified_base
124 <222> LOCATION: (8)...(8)
125 <223> OTHER INFORMATION: m5c
127 <400> SEQUENCE: 10
W--> 128 tccatgaggt tcctgatgct
130 <210> SEQ ID NO: 11
131 <211> LENGTH: 20
132 <212> TYPE: DNA
133 <213> ORGANISM: Artificial Sequence
135 <220> FEATURE:
136 <221> NAME/KEY: modified_base
137 <222> LOCATION: (13)...(13)
138 <223> OTHER INFORMATION: m5c
140 <400> SEQUENCE: 11
W--> 141 tccatgacgt tcntgatgct
143 <210> SEQ ID NO: 12
144 <211> LENGTH: 15
145 <212> TYPE: DNA
146 <213> ORGANISM: Artificial Sequence
148 <220> FEATURE:
149 <221> NAME/KEY: modified_base
150 <222> LOCATION: (7)...(7)
151 <223> OTHER INFORMATION: m5c
153 <400> SEQUENCE: 12
W--> 154 gctagaggtt agtgt
156 <210> SEQ ID NO: 13
157 <211> LENGTH: 19
158 <212> TYPE: DNA
159 <213> ORGANISM: Artificial Sequence
W--> 161 <220> FEATURE:
W--> 161 <223> OTHER INFORMATION:
161 <400> SEQUENCE: 13
162 agctccatgg tgctcactg
164 <210> SEQ ID NO: 14
165 <211> LENGTH: 20
166 <212> TYPE: DNA
167 <213> ORGANISM: Artificial Sequence
W--> 169 <220> FEATURE:
W--> 169 <223> OTHER INFORMATION:
169 <400> SEQUENCE: 14
170 ccacgtcgac cctcagcgca
172 <210> SEQ ID NO: 15
173 <211> LENGTH: 20
174 <212> TYPE: DNA
175 <213> ORGANISM: Artificial Sequence
W--> 177 <220> FEATURE:
W--> 177 <223> OTHER INFORMATION:
177 <400> SEQUENCE: 15
178 gcacatcgtc ccgcagccga

```

→ No <220>, <223> features

Same  
as  
above

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/669,187

DATE: 10/03/2000  
TIME: 15:21:53

Input Set : A:\C10397035US.txt  
Output Set : N:\CRF3\10032000\I669187.raw

180 <210> SEQ ID NO: 16  
181 <211> LENGTH: 19  
182 <212> TYPE: DNA  
183 <213> ORGANISM: Artificial Sequence  
W--> 185 <220> FEATURE:  
W--> 185 <223> OTHER INFORMATION:  
185 <400> SEQUENCE: 16  
186 gtcactcgtg gtacctcga 19  
188 <210> SEQ ID NO: 17  
189 <211> LENGTH: 25  
190 <212> TYPE: DNA  
191 <213> ORGANISM: Artificial Sequence  
W--> 193 <220> FEATURE:  
W--> 193 <223> OTHER INFORMATION:  
193 <400> SEQUENCE: 17  
194 gttggataca gccagactt tgttg 25  
196 <210> SEQ ID NO: 18  
197 <211> LENGTH: 25  
198 <212> TYPE: DNA  
199 <213> ORGANISM: Artificial Sequence  
W--> 201 <220> FEATURE:  
W--> 201 <223> OTHER INFORMATION:  
201 <400> SEQUENCE: 18  
202 gattcaactt gcgtcatct taggc 25  
204 <210> SEQ ID NO: 19  
205 <211> LENGTH: 24  
206 <212> TYPE: DNA  
207 <213> ORGANISM: Artificial Sequence  
W--> 209 <220> FEATURE:  
W--> 209 <223> OTHER INFORMATION:  
209 <400> SEQUENCE: 19  
210 accatggacg aactgtttcc cctc 24  
212 <210> SEQ ID NO: 20  
213 <211> LENGTH: 24  
214 <212> TYPE: DNA  
215 <213> ORGANISM: Artificial Sequence  
W--> 217 <220> FEATURE:  
W--> 217 <223> OTHER INFORMATION:  
217 <400> SEQUENCE: 20  
218 accatggacg agctgtttcc cctc 24  
220 <210> SEQ ID NO: 21  
221 <211> LENGTH: 24  
222 <212> TYPE: DNA  
223 <213> ORGANISM: Artificial Sequence  
W--> 225 <220> FEATURE:  
W--> 225 <223> OTHER INFORMATION:  
225 <400> SEQUENCE: 21  
226 accatggacg acctgtttcc cctc 24  
228 <210> SEQ ID NO: 22

Same

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/669,187

DATE: 10/03/2000  
TIME: 15:21:53

Input Set : A:\C10397035US.txt  
Output Set : N:\CRF3\10032000\I669187.raw

```

229 <211> LENGTH: 24
230 <212> TYPE: DNA
231 <213> ORGANISM: Artificial Sequence
W--> 233 <220> FEATURE:
W--> 233 <223> OTHER INFORMATION:
233 <400> SEQUENCE: 22
234 accatggacg tactgtttcc cctc
236 <210> SEQ ID NO: 23
237 <211> LENGTH: 24
238 <212> TYPE: DNA
239 <213> ORGANISM: Artificial Sequence
W--> 241 <220> FEATURE:
W--> 241 <223> OTHER INFORMATION:
241 <400> SEQUENCE: 23
242 accatggacg gtctgtttcc cctc
244 <210> SEQ ID NO: 24
245 <211> LENGTH: 24
246 <212> TYPE: DNA
247 <213> ORGANISM: Artificial Sequence
W--> 249 <220> FEATURE:
W--> 249 <223> OTHER INFORMATION:
249 <400> SEQUENCE: 24
250 accatggacg ttctgtttcc cctc
252 <210> SEQ ID NO: 25
253 <211> LENGTH: 25
254 <212> TYPE: DNA
255 <213> ORGANISM: Artificial Sequence
W--> 257 <220> FEATURE:
W--> 257 <223> OTHER INFORMATION:
257 <400> SEQUENCE: 25
258 ccactcacat ctgctgctcc acaag
260 <210> SEQ ID NO: 26
261 <211> LENGTH: 25
262 <212> TYPE: DNA
263 <213> ORGANISM: Artificial Sequence
W--> 265 <220> FEATURE:
W--> 265 <223> OTHER INFORMATION:
265 <400> SEQUENCE: 26
266 acttctcata gtcccttgg tccag
268 <210> SEQ ID NO: 27
269 <211> LENGTH: 20
270 <212> TYPE: DNA
271 <213> ORGANISM: Artificial Sequence
W--> 273 <220> FEATURE:
W--> 273 <223> OTHER INFORMATION:
273 <400> SEQUENCE: 27
274 tccatgagct tctgagct
276 <210> SEQ ID NO: 28
277 <211> LENGTH: 20

```

Same

**Please Note:**

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

## VERIFICATION SUMMARY

DATE: 10/03/2000

PATENT APPLICATION: US/09/669,187

TIME: 15:21:54

Input Set : A:\C10397035US.txt

Output Set: N:\CRF3\10032000\I669187.raw

L:13 M:270 C: Current Application Number differs, Replaced Current Application No  
L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:42 M:258 W: Mandatory Feature missing, <220> FEATURE:  
L:42 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
L:50 M:258 W: Mandatory Feature missing, <220> FEATURE:  
L:50 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
L:64 M:258 W: Mandatory Feature missing, <220> FEATURE:  
L:64 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
L:72 M:258 W: Mandatory Feature missing, <220> FEATURE:  
L:72 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
L:80 M:258 W: Mandatory Feature missing, <220> FEATURE:  
L:80 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
L:88 M:258 W: Mandatory Feature missing, <220> FEATURE:  
L:88 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
L:102 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
L:115 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9  
L:128 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10  
L:141 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11  
L:154 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12  
L:161 M:258 W: Mandatory Feature missing, <220> FEATURE:  
L:161 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
L:169 M:258 W: Mandatory Feature missing, <220> FEATURE:  
L:169 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
L:177 M:258 W: Mandatory Feature missing, <220> FEATURE:  
L:177 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
L:185 M:258 W: Mandatory Feature missing, <220> FEATURE:  
L:185 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
L:193 M:258 W: Mandatory Feature missing, <220> FEATURE:  
L:193 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
L:201 M:258 W: Mandatory Feature missing, <220> FEATURE:  
L:201 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
L:209 M:258 W: Mandatory Feature missing, <220> FEATURE:  
L:209 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
L:217 M:258 W: Mandatory Feature missing, <220> FEATURE:  
L:217 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
L:225 M:258 W: Mandatory Feature missing, <220> FEATURE:  
L:225 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
L:233 M:258 W: Mandatory Feature missing, <220> FEATURE:  
L:233 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
L:241 M:258 W: Mandatory Feature missing, <220> FEATURE:  
L:241 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
L:249 M:258 W: Mandatory Feature missing, <220> FEATURE:  
L:249 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
L:257 M:258 W: Mandatory Feature missing, <220> FEATURE:  
L:257 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
L:265 M:258 W: Mandatory Feature missing, <220> FEATURE:  
L:265 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
L:273 M:258 W: Mandatory Feature missing, <220> FEATURE:



## VERIFICATION SUMMARY

PATENT APPLICATION: US/09/669,187

DATE: 10/03/2000

TIME: 15:21:54

Input Set : A:\C10397035US.txt

Output Set: N:\CRF3\10032000\I669187.raw

L:273 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
L:295 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28  
L:316 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29  
L:323 M:258 W: Mandatory Feature missing, <220> FEATURE:  
L:323 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
L:331 M:258 W: Mandatory Feature missing, <220> FEATURE:  
L:331 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
L:339 M:258 W: Mandatory Feature missing, <220> FEATURE:  
L:339 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
L:347 M:258 W: Mandatory Feature missing, <220> FEATURE:  
L:347 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
L:473 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48  
L:802 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:88  
L:815 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:89  
L:1020 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:113  
L:1553 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:179  
L:1566 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:180  
L:1916 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:222  
L:2154 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:249  
L:2183 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:251  
L:2452 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:284  
L:2489 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:288  
L:2522 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:289  
L:2659 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:304  
L:2745 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:313  
L:2931 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:335  
L:2948 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:336  
L:2961 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:337  
L:2974 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:338  
L:3122 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:354  
L:3171 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:358  
L:3644 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:414  
L:5946 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:698  
L:6023 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:707  
L:6044 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:709  
L:6057 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:710  
L:6211 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:728  
L:6224 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:729  
L:6237 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:730  
L:6250 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:731  
L:6263 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:732  
L:6502 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:760  
L:6523 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:762  
L:6536 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:763  
L:6557 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:764  
L:6863 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:798  
L:6888 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:800  
L:6905 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:801  
L:6922 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:802

## VERIFICATION SUMMARY

PATENT APPLICATION: US/09/669,187

DATE: 10/03/2000

TIME: 15:21:54

Input Set : A:\C10397035US.txt

Output Set: N:\CRF3\10032000\I669187.raw

L:6939 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:803  
L:8571 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1001  
L:8880 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1039  
L:9025 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1056